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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/117,363A

DATE: 12/09/93
TIME: 12:26:24

INPUT SET: S1102.raw

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANTS: Manoharan, Muthiah
6 Phillip D. Cook
7
8 (ii) TITLE OF INVENTION: AMINE-DERIVATIZED NUCLEOSIDES AND
9 OLIGONUCLEOSIDES
10
11 (iii) NUMBER OF SEQUENCES: 23
12
13 (iv) CORRESPONDENCE ADDRESS:
14 (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz
15 and Norris
16 (B) STREET: One Liberty Place - 46th Floor
17 (C) CITY: Philadelphia
18 (D) STATE: PA
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 19103
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER:
30 (B) FILING DATE:
31 (C) CLASSIFICATION:
32
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Lucci, Joseph
35 (B) REGISTRATION NUMBER: 33,307
36 (C) REFERENCE/DOCKET NUMBER: ISIS-1169
37
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: 215-568-3100
40 (B) TELEFAX: 215-568-3439
41
42
43
44 (2) INFORMATION FOR SEQ ID NO:1:
45
46 (i) SEQUENCE CHARACTERISTICS:
47 (A) LENGTH: 11 base pairs
48 (B) TYPE: nucleic acid
49 (C) STRANDEDNESS: single
50 (D) TOPOLOGY: linear
51

RAW SEQUENCE LISTING
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52 (ii) MOLECULE TYPE: DNA (genomic)
53
54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
55
56 GGCTGACTGC G 11
57
58
59 (2) INFORMATION FOR SEQ ID NO:2:
60
61 (i) SEQUENCE CHARACTERISTICS:
62 (A) LENGTH: 20 base pairs
63 (B) TYPE: nucleic acid
64 (C) STRANDEDNESS: single
65 (D) TOPOLOGY: linear
66
67 (ii) MOLECULE TYPE: DNA (genomic)
68
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
70
71 CTGTCTCCAT CCTCTTCACT 20
72
73
74 (2) INFORMATION FOR SEQ ID NO:3:
75
76 (i) SEQUENCE CHARACTERISTICS:
77 (A) LENGTH: 20 base pairs
78 (B) TYPE: nucleic acid
79 (C) STRANDEDNESS: single
80 (D) TOPOLOGY: linear
81
82 (ii) MOLECULE TYPE: DNA (genomic)
83
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
85
86 TTGCTTCCAT CTCCTCGTC 20
87
88
89 (2) INFORMATION FOR SEQ ID NO:4:
90
91 (i) SEQUENCE CHARACTERISTICS:
92 (A) LENGTH: 18 base pairs
93 (B) TYPE: nucleic acid
94 (C) STRANDEDNESS: single
95 (D) TOPOLOGY: linear
96
97 (ii) MOLECULE TYPE: DNA (genomic)
98
99 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
100
101 TGGGAGCCAT AGCGAGGC 18
102

RAW SEQUENCE LISTING
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103
104 (2) INFORMATION FOR SEQ ID NO:5:
105
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH: 20 base pairs
108 (B) TYPE: nucleic acid
109 (C) STRANDEDNESS: single
110 (D) TOPOLOGY: linear
111
112 (ii) MOLECULE TYPE: DNA (genomic)
113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
115
116 CTGTCTCCAT CCTCTTCACT 20
117
118
119 (2) INFORMATION FOR SEQ ID NO:6:
120
121 (i) SEQUENCE CHARACTERISTICS:
122 (A) LENGTH: 16 base pairs
123 (B) TYPE: nucleic acid
124 (C) STRANDEDNESS: single
125 (D) TOPOLOGY: linear
126
127 (ii) MOLECULE TYPE: DNA (genomic)
128
129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
130
131 TCCAGGTGTC CGCATC 16
132
133
134 (2) INFORMATION FOR SEQ ID NO:7:
135
136 (i) SEQUENCE CHARACTERISTICS:
137 (A) LENGTH: 17 base pairs
138 (B) TYPE: nucleic acid
139 (C) STRANDEDNESS: single
140 (D) TOPOLOGY: linear
141
142 (ii) MOLECULE TYPE: DNA (genomic)
143
144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
145
146 GGACCGGAAG GTACGAG 17
147
148
149 (2) INFORMATION FOR SEQ ID NO:8:
150
151 (i) SEQUENCE CHARACTERISTICS:
152 (A) LENGTH: 17 base pairs
153 (B) TYPE: nucleic acid

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154 (C) STRANDEDNESS: single
155 (D) TOPOLOGY: linear
156
157 (ii) MOLECULE TYPE: DNA (genomic)
158
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
160
161 CCTGGCCTTC CATGCTC 17
162
163
164 (2) INFORMATION FOR SEQ ID NO:9:
165
166 (i) SEQUENCE CHARACTERISTICS:
167 (A) LENGTH: 17 base pairs
168 (B) TYPE: nucleic acid
169 (C) STRANDEDNESS: single
170 (D) TOPOLOGY: linear
171
172 (ii) MOLECULE TYPE: RNA (genomic)
173
174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
175
176 CCUGGCCUUC CAUGCUC 17
177
178
179 (2) INFORMATION FOR SEQ ID NO:10:
180
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH: 12 base pairs
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single
185 (D) TOPOLOGY: linear
186
187 (ii) MOLECULE TYPE: DNA (genomic)
188
189 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
190
191 CCCAGGCUCA GA 12
192
193
194 (2) INFORMATION FOR SEQ ID NO:11:
195
196 (i) SEQUENCE CHARACTERISTICS:
197 (A) LENGTH: 12 base pairs
198 (B) TYPE: nucleic acid
199 (C) STRANDEDNESS: single
200 (D) TOPOLOGY: linear
201
202 (ii) MOLECULE TYPE: DNA (genomic)
203
204 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

RAW SEQUENCE LISTING
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205
206 GAGCUCCCAG GC 12
207
208
209 (2) INFORMATION FOR SEQ ID NO:12:
210
211 (i) SEQUENCE CHARACTERISTICS:
212 (A) LENGTH: 12 base pairs
213 (B) TYPE: nucleic acid
214 (C) STRANDEDNESS: single
215 (D) TOPOLOGY: linear
216
217 (ii) MOLECULE TYPE: DNA (genomic)
218
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
220
221 CAUGCUGCAGCC 12
222
223
224 (2) INFORMATION FOR SEQ ID NO:13:
225
226 (i) SEQUENCE CHARACTERISTICS:
227 (A) LENGTH: 20 base pairs
228 (B) TYPE: nucleic acid
229 (C) STRANDEDNESS: single
230 (D) TOPOLOGY: linear
231
232 (ii) MOLECULE TYPE: DNA (genomic)
233
234 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
235
236 GCCTTTCGCG ACCCAACACU 20
237
238
239 (2) INFORMATION FOR SEQ ID NO:14:
240
241 (i) SEQUENCE CHARACTERISTICS:
242 (A) LENGTH: 11 base pairs
243 (B) TYPE: nucleic acid
244 (C) STRANDEDNESS: single
245 (D) TOPOLOGY: linear
246
247 (ii) MOLECULE TYPE: DNA (genomic)
248
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
250
251 GCGTGUCTGC G 11
252
253
254 (2) INFORMATION FOR SEQ ID NO:15:
255

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/117,363ADATE: 12/09/93
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256 (i) SEQUENCE CHARACTERISTICS:
257 (A) LENGTH: 18 base pairs
258 (B) TYPE: nucleic acid
259 (C) STRANDEDNESS: single
260 (D) TOPOLOGY: linear
261
262 (ii) MOLECULE TYPE: DNA (genomic)
263
264 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
265
266 UGGGAGCCAT AGCGAGGC 18
267
268
269 (2) INFORMATION FOR SEQ ID NO:16:
270
271 (i) SEQUENCE CHARACTERISTICS:
272 (A) LENGTH: 18 base pairs
273 (B) TYPE: nucleic acid
274 (C) STRANDEDNESS: single
275 (D) TOPOLOGY: linear
276
277 (ii) MOLECULE TYPE: DNA (genomic)
278
279 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
280
281 TGGGAGCCAU AGCGAGGC 18
282
283
284 (2) INFORMATION FOR SEQ ID NO:17:
285
286 (i) SEQUENCE CHARACTERISTICS:
287 (A) LENGTH: 20 base pairs
288 (B) TYPE: nucleic acid
289 (C) STRANDEDNESS: single
290 (D) TOPOLOGY: linear
291
292 (ii) MOLECULE TYPE: DNA (genomic)
293
294 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
295
296 UCTGAGTAGC AGAGGAGCTC 20
297
298
299 (2) INFORMATION FOR SEQ ID NO:18:
300
301 (i) SEQUENCE CHARACTERISTICS:
302 (A) LENGTH: 21 base pairs
303 (B) TYPE: nucleic acid
304 (C) STRANDEDNESS: single
305 (D) TOPOLOGY: linear
306

RAW SEQUENCE LISTING
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307 (ii) MOLECULE TYPE: DNA (genomic)
308
309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
310
311 UGCCCCAAGCT GGCATCCGTC A 21
312
313
314 (2) INFORMATION FOR SEQ ID NO:19:
315
316 (i) SEQUENCE CHARACTERISTICS:
317 (A) LENGTH: 22 base pairs
318 (B) TYPE: nucleic acid
319 (C) STRANDEDNESS: single
320 (D) TOPOLOGY: linear
321
322 (ii) MOLECULE TYPE: DNA (genomic)
323
324 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
325
326 UGCGTTTGCT CTTCTTCTTG CG 22
327
328
329 (2) INFORMATION FOR SEQ ID NO:20:
330
331 (i) SEQUENCE CHARACTERISTICS:
332 (A) LENGTH: 20 base pairs
333 (B) TYPE: nucleic acid
334 (C) STRANDEDNESS: single
335 (D) TOPOLOGY: linear
336
337 (ii) MOLECULE TYPE: DNA (genomic)
338
339 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
340
341 UGCATCCCCC AGGCCACCAT 20
342
343
344 (2) INFORMATION FOR SEQ ID NO:21:
345
346 (i) SEQUENCE CHARACTERISTICS:
347 (A) LENGTH: 20 base pairs
348 (B) TYPE: nucleic acid
349 (C) STRANDEDNESS: single
350 (D) TOPOLOGY: linear
351
352 (ii) MOLECULE TYPE: DNA (genomic)
353
354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
355
356 UCCCGCCTGT GACATGCATT 20
357

RAW SEQUENCE LISTING
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358
359 (2) INFORMATION FOR SEQ ID NO:22:
360
361 (i) SEQUENCE CHARACTERISTICS:
362 (A) LENGTH: 20 base pairs
363 (B) TYPE: nucleic acid
364 (C) STRANDEDNESS: single
365 (D) TOPOLOGY: linear
366
367 (ii) MOLECULE TYPE: DNA (genomic)
368
369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
370
371 GUTCTCGCTG GTGAGTTTCA 20
372
373
374
375 (2) INFORMATION FOR SEQ ID NO:23:
376
377 (i) SEQUENCE CHARACTERISTICS:
378 (A) LENGTH: 19 base pairs
379 (B) TYPE: nucleic acid
380 (C) STRANDEDNESS: single
381 (D) TOPOLOGY: linear
382
383 (ii) MOLECULE TYPE: DNA (genomic)
384
385 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
386
387 UUGGGAGCCA TAGCGAGGC 19

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/117,363A

DATE: 12/09/93
TIME: 12:27:06

INPUT SET: S1102.raw

Line

Error

Original Text

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/117,363A

DATE: 12/09/93
TIME: 12:27:06

INPUT SET: S1102.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

PAGE: 1

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/117,363A

DATE: 12/09/93
TIME: 12:27:07

INPUT SET: S1102.raw

Line	Original Text	Corrected Text
5	(i) APPLICANTS: Manoharan, Muthiah	(i) APPLICANT: Manoharan, Muthiah